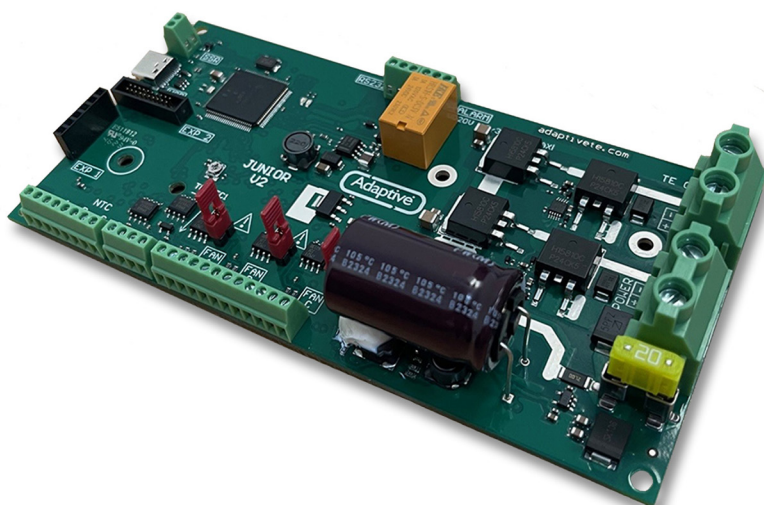


ADJ-48-450-UR-V2

ADAPTIVE® JUNIOR CONTROLLER



Part Numbers

ADJ = Adaptive Junior Controller
24 / 48 = Voltage
450 = Wattage

Connection type
U – USB connection, R – RS232 connection

Suffix
No additional number - standard
Additional number : 001 – 999 – custom option

Features

- High efficiency load driver
- 2 external thermocouple inputs
- 3 independent programmable fan outputs
- Alarm output
- USB 2.0 and RS232 communication interfaces
- 4 NTC Thermistor inputs

PC Software

Download the user-friendly PC software from:
www.adaptivete.com/downloads

The Adaptive® JUNIOR is a PID controlled pulse width modulator (PWM), intended for thermoelectric cooler or heater applications that require a uni or a bidirectional drive source for accurate temperature control. The controller is capable of operating in a standalone mode, it is also supported by user-friendly PC software. There are additional quick set-up options for manual setpoint adjustment and a selectable fan voltage available.

Optional extras:

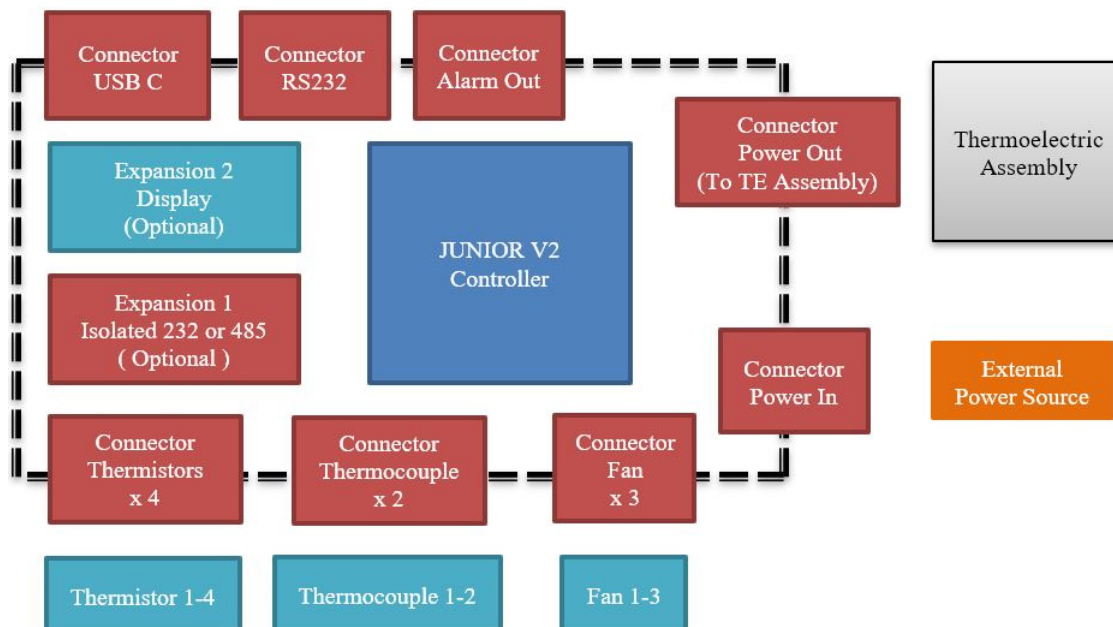
- System parameters can be monitored through an LCD.
- RS232 or RS485 isolated interface.

CHARACTERISTICS

Input Voltage Range (TEG Harvester)	1 IV to 48V DC
Maximum Load (Natural Convection)	15A or 250W
Maximum Load (Forced Convection)	15A or 450W
Control Temperature	-50 °C to +250 °C
Operating Temperature	-25 °C to +85 °C
Compatible Fans	2, 3 and 4 Wire Fans
Fan Output Voltage Range	12V, 24V, 48V
Thermocouple Type	K (More types to come)
Communication Interface	USB, RS232
Storage	Micro SD, EEPROM
Temperature Control Accuracy	+/- 0.5 °C
Protection	Overcurrent, Temperature, Fan Speed

ADJ-48-450-UR-V2

SYSTEM ARCHITECTURE



FURTHER INFORMATION

- Application type - Fans & thermal management
- Application sub type - Electronics heating & cooling
- Contents: 1x controller board